XP-002248714

AN - 1991-286947 [39]
AP - SU19884469140 19880801
CPY - BEKI
DC - L03
FS - CPI
IC - C04B35/84
IN - SVIDUNOVIC N A; VERBITSKII A N; YAKIMOV S G
MC - L04-D04 L04-D10
PA - (BEKI ) BELORUSS KIROV TECHN INS
PN - SU1622348 A 19910123 DW199139 000pp
PR - SU19884469140 19880801
XA - C1991-124337
XIC - C04B-035/84
AB - SU1622348 The coating contains (in wt.%): titanium diboride 20-48, yttrium oxide - 12-20, water glass 12-16 and water 24-48.
- TiB2 and Y2O3 powders are used, having particle size up to 50 microns. Soln. of water glass in water acts as a binder. Obtd. flux is applied into a gap between opening and cylindrical surface of graphite cathode, cathode is then dried at 80 deg. C and fired at 550 deg. C for 0.5 h. Obtd. coating has thickness of 1-2 mm.
- Tests show that the use of proposed coating increases service life of plasmatron cathode by 1.8-1.9 times.
- USE/ADVANTAGE - As protective coating for graphite electrodes used under conditions of high temp. gas corrosion and in presence of plasma. The coating increases service life of electrodes. Bul.3/23.1.91 (3pp Dwg.No. 0/0)
IW - PROTECT COATING PLASMATRON ELECTRODE CONTAIN TITANIUM DI BORIDE YTTRIUM OXIDE WATER GLASS WATER INCREASE SERVICE LIFE GRAPHITE CATHODE
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INW - SVIDUNOVIC N A; VERBITSKII A N; YAKIMOV S G
NC - 001
OPD - 1988-08-01
ORD - 1991-01-23
PAW - (BEKI ) BELORUSS KIROV TECHN INS
TI - Protective coating for plasmatron electrode - contains titanium di:boride, yttrium oxide, water glass and water and increases service life of graphite cathodes